

Stanley-G. I. Electric Manufacturing Company, Pittsfield, Mass.

New York Office, 29 BROADWAY.

# General Incandescent Arc Light Co.

TRADE

MARK

# G.I.

BULLETIN NO. 81

JANUARY, 1905

GENERAL SALES OFFICE: 529 WEST 34TH STREET, NEW YORK

This Bulletin forms Part of G. I. "White" Catalogue of Arc and Incandescent Lamps.  
Code Word from Goldfliege to Golgas—Godlily to Godmother.

## Series Incandescent Street Lighting.

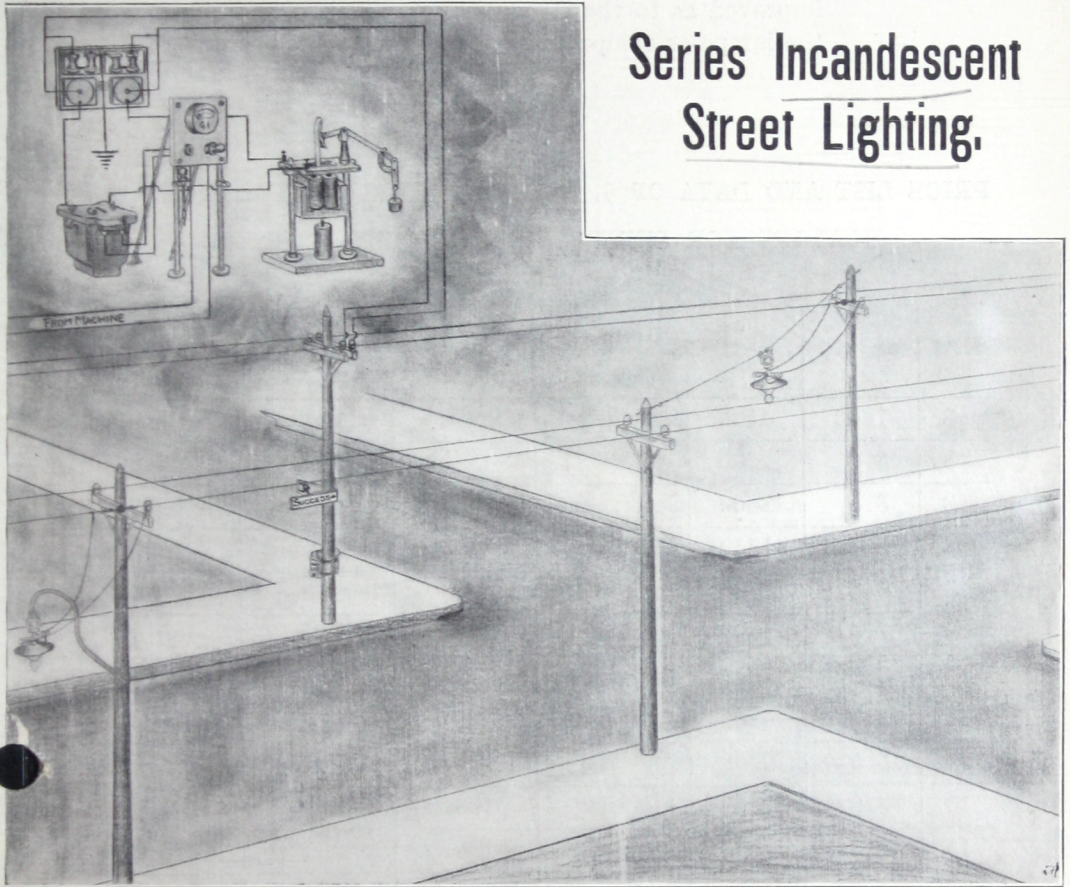


Fig. 1.

G. I. SYSTEM.

Perfect Regulation. Maximum Power Factor and Efficiency.



**System.**

A complete **G. I.** Series Street Incandescent Lighting System comprises an automatic regulator, preferably but not absolutely necessarily a constant potential transformer, a panel board, lightning arresters, choke coils, brackets or span fixtures (including shades and deflectors) porcelain sockets and lamps.

This system will automatically maintain practically constant current through the lamp circuit from full lamp load to full short circuit.

The circuits are therefore protected from excessive lamp burnouts due to loopouts, grounds or combinations of grounds.

The maintainance labor is reduced and the service improved as to the steadiness, uniformity and reliability of the lamps as compared with other systems.

**PRICE LIST AND DATA OF G. I. AUTOMATIC REACTIVE COIL REGULATORS FOR SERIES INCANDESCENT LIGHTING.**

K. W.	Amperes.	Maximum Load Volts.	Code Word.	Price.	Code Word.	Price.
			60 Cycles.	60 Cycles.	125-133.	125-133.
8	1.75	4500	Goldfliege	\$180.00	Goldkorn	\$180.00
8	3.0	2700	Goldfluth	180.00	Goldkraeche	180.00
8	3.5	2300	Goldfrucht	180.00	Goldkuchen	180.00
8	5.5	1450	Goldfuchs	180.00	Goldlauch	180.00
8	6.6	1200	Goldgans	180.00	Goldleiste	180.00
8	7.5	1050	Goldgehalt	180.00	Goldlilie	180.00
15	3.0	5000	Goldgewand	195.00	Goldmine	195.00
15	3.5	4300	Goldgrube	195.00	Goldmohr	195.00
15	5.5	2700	Goldgruen	195.00	Goldmoos	195.00
15	6.6	2250	Goldhaar	195.00	Goldnadel	195.00
15	7.5	2000	Goldkette	195.00	Goldnessel	195.00
30	5.5	5400	Goldkies	290.00	Goldorange	290.00
30	6.6	4500	Goldklump	290.00	Goldpfeil	290.00
30	7.5	4000	Goldknopf	290.00	Goldplatte	290.00



G. I. AUTOMATIC REACTIVE COIL REGULATOR.

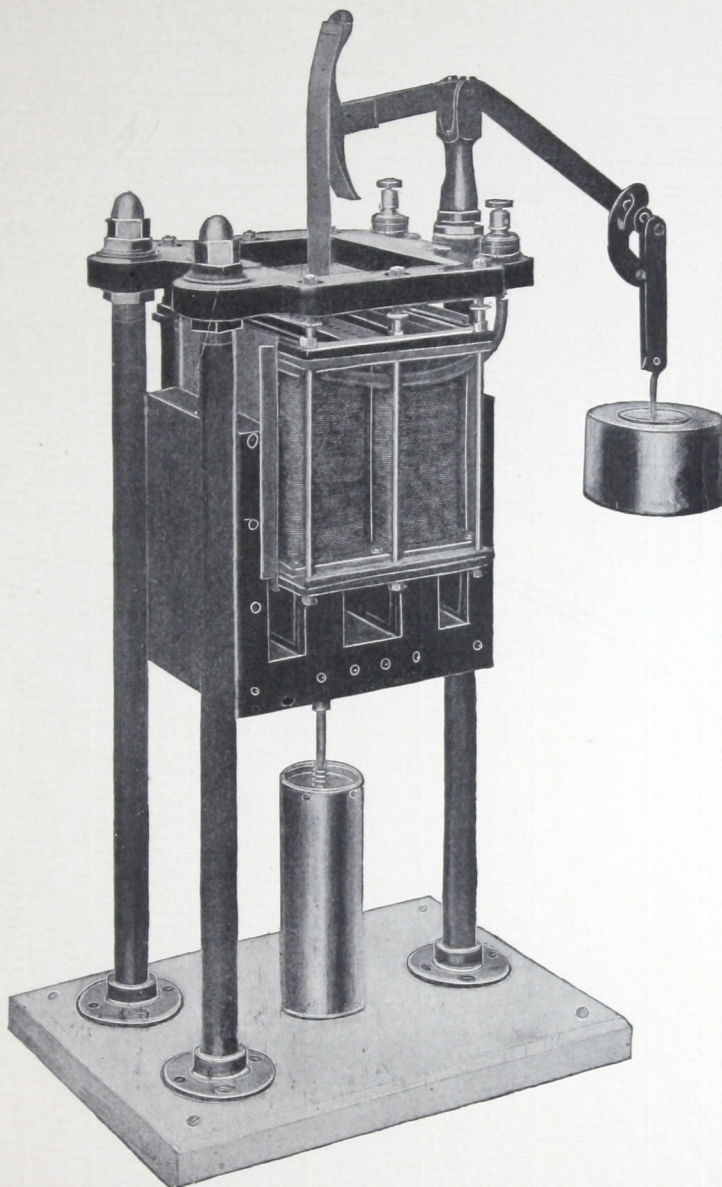


Fig. 2.

30 KILOWATT SIZE.



## TRANSFORMERS.

Lamp circuits may be connected directly to primary feeders, but in that case grounds on the lamp circuits will ground the entire generating system. It is therefore recommended that insulating constant potential transformers be used in connection with the automatic regulators.

PRICE LIST AND LOAD DATA  
OF CONSTANT POTENTIAL TRANSFORMERS, OIL COOLED.  
FOR SERIES INCANDESCENT LIGHTING.

Transformers are suitable for 60-133 cycles. Number of lamps calculated for 60 cycles. With 133 cycles number of lamps will be about 10 per cent. less.

K. W.	Sec. Amperes.	Maximum Load Volts	Number of 3.5 watt lamps, allowing 7.5 per cent. line loss.					List Price	Code Word.
			20 c. p.	25 c. p.	30 c. p.	40 c. p.	50 c. p.		
8	1.75	4500	99	79	66	49	39	\$180.	Goldpuppe
8	3.0	2700	102	82	68	51	41	180.	Goldquaste
8	3.5	2300	101	81	67	50	40	175.	Goldquelle
8	5.5	1450	100	80	67	50	40	175.	Goldrahmen
8	6.6	1200	100	80	66	50	40	170.	Goldrand
8	7.5	1050	99	79	66	49	39	170.	Goldraupe
15	3.0	5000	190	152	126	95	76	265.	Goldsandes
15	3.5	4300	190	152	126	95	76	255.	Goldschaum
15	5.5	2700	188	150	125	94	75	240.	Goldschein
15	6.6	2250	188	150	125	93	74	235.	Goldseife
15	7.5	2000	190	152	126	95	76	235.	Goldsmith
30	5.5	5400	378	302	253	189	151	490.	Goldspruch
30	6.6	4500	378	302	253	189	151	440.	Goldstaub
30	7.5	4000	382	306	254	191	153	435.	Goldstein



**PRICE LIST AND DATA**  
**OF STANDARD G. I. SERIES A. C. SWITCH PANELS.**  
 For Circuits of 7000 Volts or less and 15 Amperes or less.

Number of Circuits.	Description.	List Price.	Code Word.
One	With Primary Plugs.....	\$115.00	Goldstoff
One	With Secondary Plugs.....	115.00	Goldstrohl
Two	With Primary Plugs and without Pilot Lamps.....	160.00	Goldstrich
Two	With Primary Plugs and Pilot Lamps.	165.00	Goldstufte
Two	With Secondary Plugs and without Pilot Lamps.....	160.00	Goldstuhl
Two	With Secondary Plugs and Pilot Lamps.....	165.00	Goldsucht

**Secondary  
Plugs.**

Panels with secondary plugs must be used with multiple circuit transformers, and in cases where the primary voltage is above 7,000 or the primary current more than 15 amperes. When panels with secondary plugs are used it will be necessary to provide an oil switch or special plug switches for opening the transformers primary circuit, and prices for such apparatus will be furnished upon application.

The Standard **G. I. Series A. C. Switch Panel** is made of 1¼ inch blue Vermont marble, 18 inch high and 16 inch

wide, mounted on a substantial iron tube frame. One round type hot wire ammeter with scale properly divided for the operating current and connected to the lamp circuit through a series transformer insulated to withstand 13,500 volts, is mounted on each single circuit panel. On a two circuit board an ammeter jack is provided so that ammeter may be connected into either circuit at will.

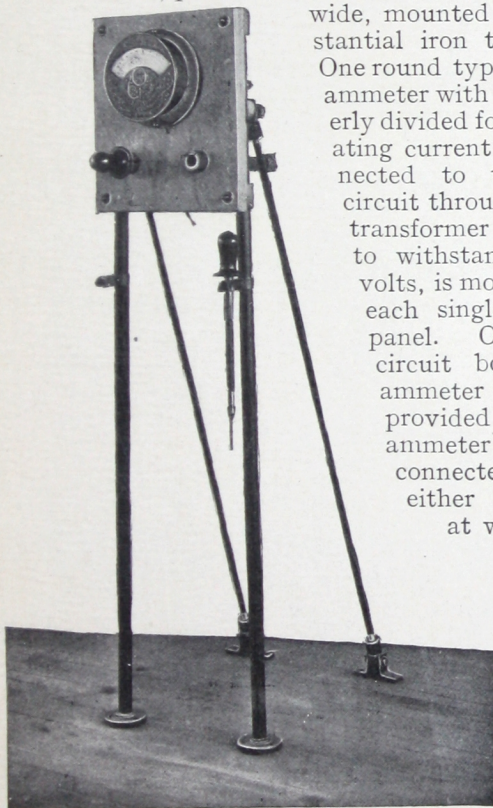


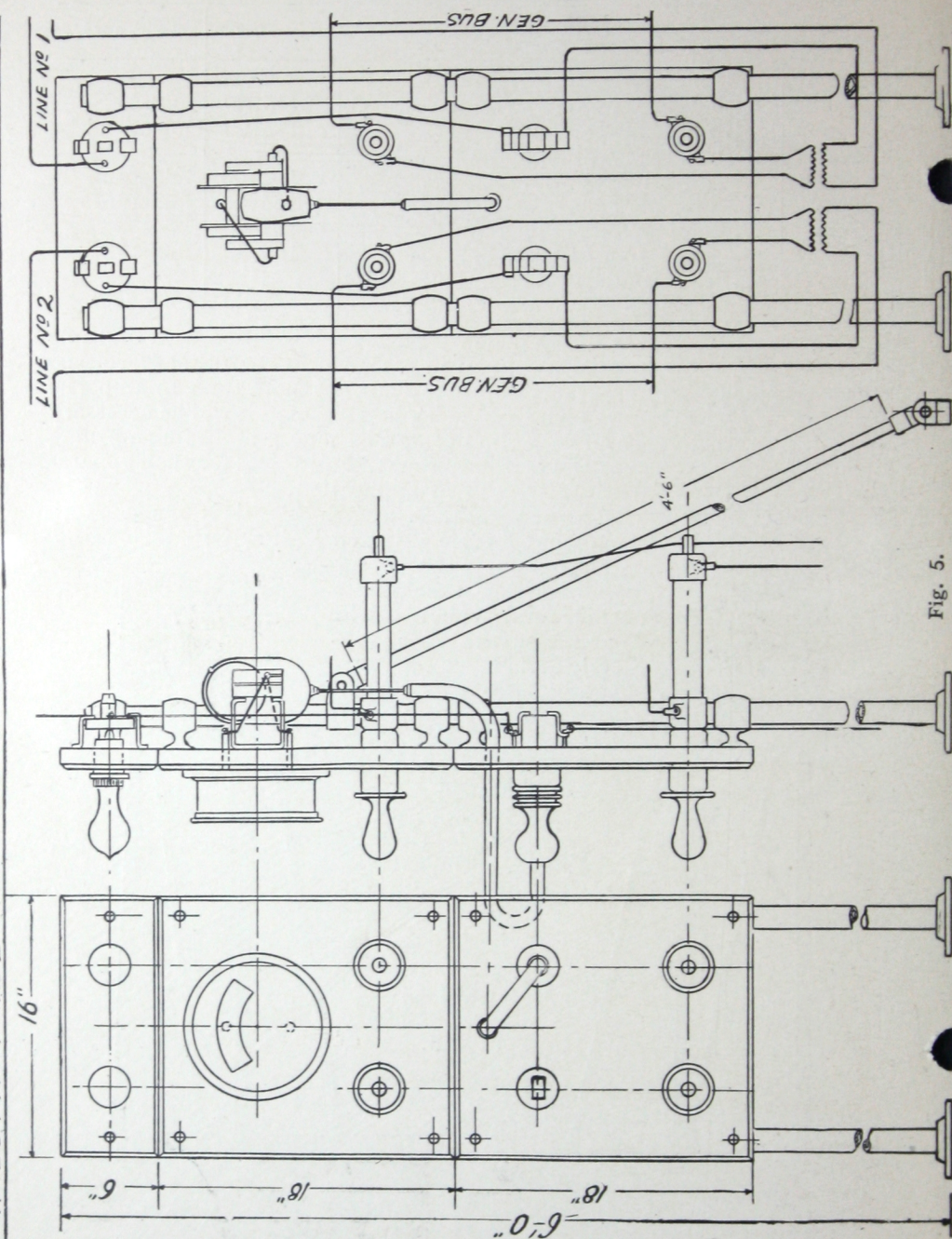
Fig. 3.



Fig. 4.



SERIES ARC PANEL TWO CIRCUITS WITH PILOT LAMPS. PRIM PLUGS.





## NOVEL SWITCH PLUG—CONVENIENT AND SAFE.

The cuts herewith show our novel switch plug and enclosed fuse combined. By the use of this device all danger in replacing blown fuses is obviated. If extra plugs are kept at hand no time need be lost in restarting circuits that have blown fuses and the empty plugs may be re-fused at the convenience of the operator.

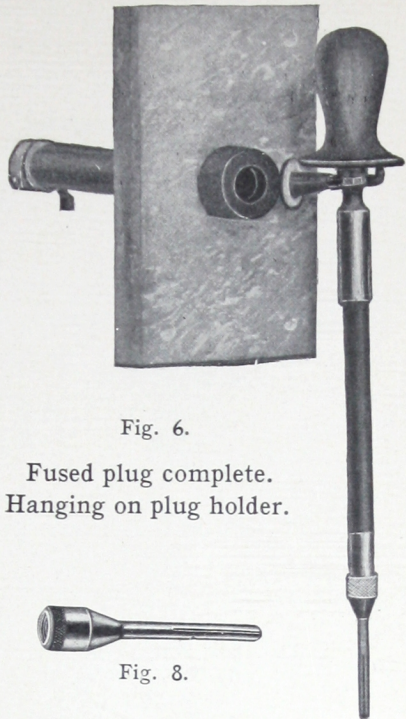


Fig. 6.

Fused plug complete.  
Hanging on plug holder.

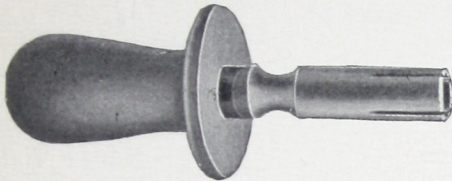


Fig. 7.

Fused plug apart.



Fig. 8.



Fig. 9.

## G. I. LIGHTNING ARRESTERS.

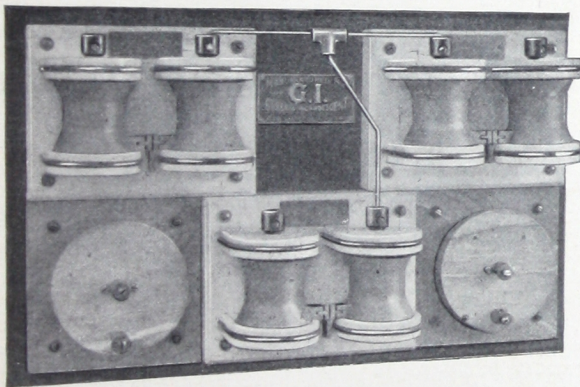


Fig. 10.

It is absolutely necessary to equip each lamp circuit with the efficient **G. I. Lightning Arrester** equipment, which consists of a suitable frame upon which is mounted the proper number of kicking coils and lightning arrester units, provided with porcelain bases.

Maximum Line Voltage.	Minimum Line Voltage.	List Prices.	Code Word.
2300	500	\$20.00	Godlily
4500	2400	30.00	Godlof
7200	4600	50.00	Godminnend
10000	7300	60.00	Godmother



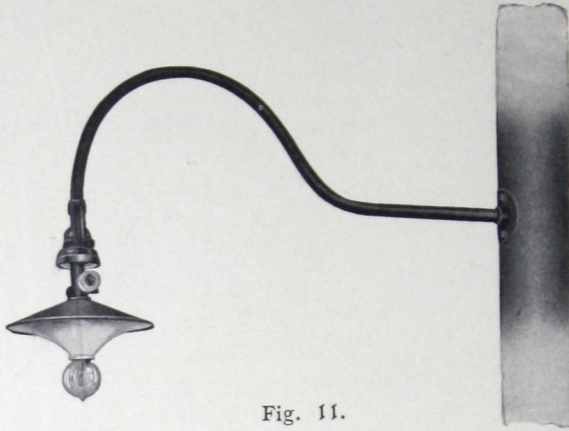


Fig. 11.

### G. 1. STREET SERIES INCANDESCENT LAMP BRACKET.

**Description.** The necessity for a well insulated, strong and graceful appearing bracket has been met by the one here illustrated. The lamp is insulated from ground by a 10,000 volt glass insulator. The spreader represents strength and simplicity, it being cast in one piece with the insulator pins. The center line of the lamp when in position is but four feet from the pole making it possible to easily inspect or renew lamp. The hood is of galvanized iron and is water tight at the joint. The deflector is held by three clips and may be easily removed.

Brackets are made to fit either square or round poles.

### PRICE LIST.

#### G. 1. STREET SERIES INCANDESCENT LAMP BRACKETS.

Cat. No.	Description.	List Price.	Code Word.
11,289	Lamp bracket complete for round pole for use with <b>large</b> porcelain series socket and receptacle, not including socket and receptacle or lamp.....	\$4.65	Goldtapete
11,459	Lamp bracket complete for square pole for use with <b>large</b> porcelain series socket and receptacle, not including socket and receptacle or lamp....	4.65	Goldtiegel
29,186	Lamp bracket complete for round pole for use with <b>small</b> porcelain series socket and receptacle, not including socket and receptacle or lamp.....	4.65	Goldvogel
29,185	Lamp bracket complete for square pole for use with <b>small</b> porcelain series socket and receptacle, not including socket and receptacle or lamp.....	4.65	Goldwage



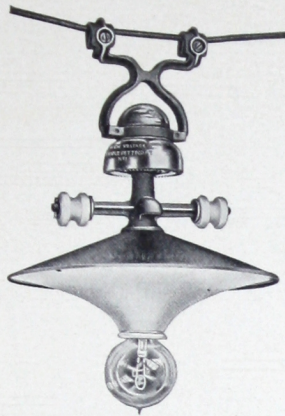


Fig. 12. 3

### CENTRE SPAN SUSPENSION FIXTURE.

The above cut shows our new arrangement for allowing lamp fixture to be clamped on a span cable above the middle of the street.

Cat. No.	Description.	List Price.	Code Word.
34,928	Centre span suspension fixture, complete, with clamp, for use with <b>large</b> porcelain series socket and receptacle, not including socket and receptacle or lamp.....	\$3.70	Goldweide
34,929	Centre span suspension fixture, complete, with clamp, for use with <b>small</b> porcelain series socket and receptacle, not including socket and receptacle or lamp.....	3.70	Goldwespe
34,930	Suspension clamp alone.....	1.60	Goldwolke



## PORCELAIN SERIES SOCKET AND RECEPTACLE.

**Description.** This socket is made in two sizes for use with large base  $1\frac{1}{2}$  inches and small base 1 inch, 10 amperes or less Edison series lamps. The receptacle is screwed to the bracket and the socket is "jacked" into contact springs in the receptacle so that circuit is not opened in withdrawing or replacing the socket and lamp. A paper film is placed between the two socket clips which have a generous bearing surface. The socket and receptacle are of heavy porcelain and no metal parts are exposed. The socket protrudes below the reflector so that a lamp may be replaced with ease and safety. The lamp is water proof and has a moulded glass base.

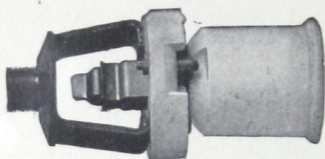


Fig. 13.

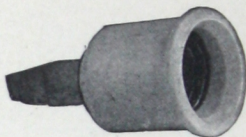


Fig. 14.



Fig. 15.

Cat. No.	Description.	List Price.	Code Word.
	Sockets and Receptacles for Brackets (Cat. No. 11,289 and 11,459) and for Centre Span Suspension Fixture (Cat. No. 34,928.)		
25,708	<b>Large</b> porcelain series sockets and receptacles, complete, including iron yoke for use with lamps with $1\frac{1}{2}$ in. Edison base	\$2.00	Goldwurm
25,711	Porcelain series socket alone.....	1.05	Goldyllocks
25,712	Porcelain receptacles with clips and iron yoke.....	1.00	Golelhar
25,713	Porcelain receptacles with clips only.....	.65	Golfachtig
25,714	Iron yoke with two screws No. 10,252.....	.35	Golfada
	Sockets and Receptacles for Brackets (Cat. No. 29,185 and 29,186) and for Centre Span Suspension Fixture (Cat. No. 34,929.)		
29,170	<b>Small</b> porcelain series socket and receptacle complete, including iron yoke for use with lamp with 1 inch Edison base....	1.50	Golfdde
25,720	Porcelain series socket alone.....	.50	Golfolina
29,171	Porcelain receptacle with clips and iron yoke	1.00	Golfos
25,713	Porcelain receptacle with clips only.....	.65	Golfstrom
29,172	Iron yoke with two screws, No. 10,252.....	.35	Golgas



PRICE SCHEDULE.

PLAIN STREET SERIES INCANDESCENT LAMPS FOR STREET  
LIGHTING FITTED WITH LARGE EDISON BASE.

Candle Power.	Amperes.	Broken Packages.	Standard Packages.	To customers who will place future delivery contract for series lamps and whose annual requirements in all lamps are		
				1000 to 5000	5000 to 10000	10000 and more.
*16	1.75	\$0.34	\$0.29	\$0.28	\$0.27½	\$0.27
*20	1.75	.34	.29	.28	.27½	.27
*25	1.75	.34	.29	.28	.27½	.27
30, 40, 50	1.75	.52	.47	.45	.44	.42
*20, *25	3.0	.42	.37	.35	.34½	.34
30, 40	3.0	.46	.41	.39	.38	.37
50	3.0	.52	.47	.45	.44	.42
20, 25	3.5	.46	.41	.39	.38	.37
30, 40	3.5	.48	.43	.41	.40	.39
50	3.5	.55	.50	.48	.47	.46
20, 25	5.5	.54	.49	.46	.45	.43
30, 40	5.5	.57	.52	.49	.48	.46
50	5.5	.63	.58	.55	.54	.52
20, 25	6.0 to 7.5	.60	.55	.52	.51	.49
30, 40	6.0 to 7.5	.63	.58	.55	.54	.52
50, 65	6.0 to 7.5	.70	.64	.60	.59	.57
75, 125	6.0 to 7.5	.82	.72	.68	.66	.64

The future delivery prices in above schedule are based on consumer's total annual requirements of all lamps, and are given to consumers who place future delivery contracts for series lamps, either separately or as a part of a future delivery contract for other lamps.

\*These lamps can be fitted with regular Edison Base (Small). When so fitted the price will be two cents less than above prices.

Definition of Standard Package.

16 to 65 candle power inclusive, not less than 50 lamps.

75 to 125 candle power inclusive, not less than 20 lamps.



# GENERAL INCANDESCENT ARC LIGHT COMPANY.

GENERAL SALES OFFICE: 529 WEST 34TH STREET, NEW YORK CITY.

## DISTRICT OFFICES:

BOSTON, MASS. .... 937 Oliver Building.  
 BUTTE, MONTANA. .... Montana Electric Co.  
 CHICAGO, ILL. .... 1412-1413 Marquette Building.  
 CINCINNATI, OHIO. .... 62 Perin Building.  
 DENVER, COLO. .... 1621 17th Street.

EXPORT DEPT. (New York) .. 529 West 34th St.  
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 SAN FRANCISCO, CAL. .. 69-75 New Montgomery St.  
 SEATTLE, WASH. .... Pioneer Building.  
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CABLE ADDRESS: "GIALCO, NEW YORK."

## SEND FOR G. I. BULLETINS AS FOLLOWS:

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D. C. Multiple, 100 to 125 V. Arc Lamps "O" .....	371	
Catalogue of Parts of Type "O" Enclosed Arc Lamp .....	39	
D. C. Series C. P. 200 to 600 V. Arc Lamps "L 3" .....	274	
D. C. Series Constant Current Arc Lamps "L 5" .....	275	
A. C. Multiple, 60 to 133 Cycle Arc Lamps "L 6" .....	382	
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D. C. Multiple 100 to 125, 200 to 250 V. "L 31," "L 41" and "L 22" Arc Lamps .....	78	"G. I." White Catalogue :
Instruction Bulletin "L 11" and "L 21" Arc Lamps .....	3	<b>Arc and Incan- descent' Lamps.</b>
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New Trimming Device for High Tension G. I. Arc Lamps .....	70	
Carbons for Enclosed Arc Lamps "Electra" .....	300	
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G. I. Incandescent Lamps .....	490	
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Floor Outlet Boxes (Watertight) .....	194	"G. I." Buff Catalogue :
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